Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_

**Making Science Graphs and Interpreting Data Packet: Answer Sheet**

Ms. Ottolini, PreAP Biology

**Graphing Practice Problem #2**

1. Make a line graph of the data from your packet on the grid provided below. Make sure to include an appropriate title, labeled axes with units, a logical scale, properly plotted points, and a key if necessary.
2. Identify the independent variable (IV): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Identify the dependent variable (DV): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Identify the average (mean) number of tadpoles collected in samples at various pH values: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Identify the optimum water pH for tadpole development: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Graphing Practice Problem #3**

1. Make a line graph of the data from your packet on the grid provided below. Make sure to include an appropriate title, labeled axes with units, a logical scale, properly plotted points, and a key if necessary.

1. Identify the independent variable (IV): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Identify the dependent variable (DV): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Identify the three experimental groups in this

experiment.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Is there a control group in this experiment?

If not, how might you create a control group?

(Remember a control group is one that does not

receive the independent variable.)

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**Graphing Practice Problem #4**

1. Make a line graph of the data from your packet on the grid provided below. Make sure to include an appropriate title, labeled axes with units, a logical scale, properly plotted points, and a key if necessary.
2. Identify the independent variable (IV): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Identify the dependent variable (DV): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Identify the average (mean) number of clams developing in water samples at various

temperatures.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Identify the optimum water temperature for

clam development.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_